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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/929,674	•	08/14/2001	Joseph H. Abler	870091.90173	9738
26710	7590	07/28/2004		EXAMINER	
QUARLES			MADSEN, ROBERT A		
411 E. WISCONSIN AVENUE SUITE 2040				ART UNIT	PAPER NUMBER
MILWAUK	EE, WI	53202-4497	1761		

DATE MAILED: 07/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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- 00	<del></del> -	Application No.	Applicant(s)	
	Office Action Summer	09/929,674	ABLER, JOSEPH H.	
	Office Action Summary	Examiner	Art Unit	
		Robert Madsen	1761	
Period 1	The MAILING DATE of this communication apports or Reply	bears on the cover sheet wit	th the correspondence addres	SS
THE - Ext - afte - if th - if N - Fail	HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl or period for reply is specified above, the maximum statutory period or the reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirty will apply and will expire SIX (6) MON' , cause the application to become AB,	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	unication.
Status				
	Responsive to communication(s) filed on <u>04 M</u> .  This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Equation 1.	action is non-final.		erits is
Disposi	tion of Claims			
5)	Claim(s) 38-43,45 and 50-55 is/are pending in 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 38-43,45 and 50-55 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.		
Applicat	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to be drawing(s) be held in abeyand ion is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.	` '
Priority	under 35 U.S.C. § 119			
а)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document:  2. Certified copies of the priority document:  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	oplication No received in this National Stag	ge
Attachmer				
2)  Notion	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152 	2)

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#### **DETAILED ACTION**

1. The Amendment filed May 4, 2004 has been entered. Claims 1-37, 44,46-49 have been cancelled. Claims 50-55 have been added. Claims 38-43, 45,50-55 are currently pending in the application.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 50 and 55 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed. had possession of the claimed invention. Per the disclosure, applicant has defined a "cooling tank" (e.g. item 19) divided into "cooling cells" (e.g. items 31-34), and the "cooling cells" are subdivided into "sections" (e.g. items 61 and 62) via an internal wall (e.g. item 63). However, claims 50 and 55 recite the different sections are formed by dividing the tank into a plurality of cooling cells. Based on the disclosure, different sections are formed by dividing the cooling cells with an internal wall, not dividing the tank into cooling cells.

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## Claim Rejections - 35 USC § 102

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. It is noted that Nelles teaches sections "arranged horizontally with respect to each other" in two ways. First, Nelles teaches "sections" of the tank formed by items 36, which receive each rack 15 (See Figure 3), are horizontal with respect to one another. Second, the "sections" compartments 97 formed by the shelving structure 64/67 are also arranged horizontally with respect to one another. This office action will address both interpretations in light of the amended claims.
- 7. Claims 38,39, 41-43,45,50,51 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelles (US 4815368).
- 8. Regarding claim 38,39,41-43,45,50, Nelles teaches placing cheese blocks sequentially into different sections of a tank (e.g. each section defined as the space between stanchions 36 that are arranged horizontally to one another) using an inlet flume, and the cold brine flows from the bottom of the tank vertically (i.e. contacting the aforementioned submerged rack first, followed by the aforementioned partially submerged rack of Figure 3), as recited in claim 38 and 39, and (See abstract, Figures Column 3, line 45 to Column 4, line 3, Column 5, line 63 to Column 6, line7, and Column 8, line 14-62). Nelles further teaches the sections defined by items 36 are also formed by walls (i.e. items 67 in Figure 6) into a plurality of cooling cells (i.e. shelves 64

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of Figure 6 or compartments 97) as recited in claim 50, the cooling cells are arranged horizontally, the blocks held in cells at the bottom of each rack have been in the tank for the longest period of time (i.e. lower compartments of each section), and the cold brine flows from the bottom of the tank vertically through each rack (i.e. contacting the lowest shelves/cells first) sequentially transferred from selected cells (i.e. beginning with the bottom of each rack, which has been in the tank for the longest time) to the cells immediately above, which have been in the tank for the next longest period of time and are not as cold as the previous, with the lowest cell being the coldest, as recited in claims 42 and 43.

- 9. Regarding claim 41, Nelles teaches the brine passes vertically through each rack and the upper level of brine is removed from the tank, and thus removed from the blocks that have been in the tank the least amount of time are those in the partially submerged rack at the top of the brine tank ( see column 9, lines 25-47).
- 10. Regarding claims 51 and 52, at least some of the cheese is completely submerged (See Figure 3).
- 11. Claims 38-43,45,50-55 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelles (US 4815368) evidenced by Woods (US 3719407).
- 12. Amended claim 38 differs from the previously presented claim 38 only in the recitation that the sections "are arranged horizontally with respect to on another" and "while cheese blocks are confined within each section of the tank". It is noted that the sections as cited in the previous Office Action (i.e. the shelves) are arranged

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horizontally with respect to one another, as evidenced by Woods. Woods teaches shelves that are substantially horizontal with respect to the floor (Column 2, lines 60-67), and thus one of ordinary skill in the art would recognize that the shelves of Nelles are also arranged horizontally with respect to the floor and each other.

13. Regarding claim 38-40,42,43,50-55, Nelles teaches placing cheese blocks sequentially into different sections of a tank (e.g. shelves 63 in Figures), which are formed by dividing the tank into a plurality of cooling cells via walls (e.g. shelves 63 include walls 67 and 64 which form compartments 97) as recited in claims 50 and 55, using an inlet flume, wherein cheese blocks are confined in each section via the walls 67 and are loaded section-by-section, or cell-by-cell (beginning with the lowest shelf) of each rack such that the blocks that have been in the tank for the longest period of time, and are thus the coldest as recited in claim 43, are those on the lowest sections/cells and the cold brine flows from the bottom of the tank vertically through each rack (i.e. contacting the lowest shelves first), as recited in claim 38 and 39 (See abstract, Figures Column 3, line 45 to Column 4, line 3, Column 5, line 63 to Column 6, line7, and Column 8, line 14-62). Since the cold brine is first introduced to the sections /cells that have been in the tank for the longest time (i.e. at the bottom of the tank) and is forced to flow upward through each rack, the brine is sequentially transferred from selected sections/ cells (i.e. beginning with the bottom of each rack, which has been in the tank for the longest time ) to the sections/cells immediately above, which have been in the tank for the next longest period of time and are not as cold as the previous, as recited in

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claims 40, 42, and 54 wherein at least some of the cheese blocks entirely submerged as recited in claims 51-53.

- 14. Regarding claim 41, Nelles teaches the brine passes vertically through each rack and the upper level of brine is removed from the tank, and thus removed from the blocks that have been in the tank the least amount of time are in shelves, or cells, since those are located top of the tank of the brine ( see column 9, lines 25-47).
- 15. Regarding claim 45, Nelles teaches the brine is chilled before entering the tank (Column 5, line 57 to Column 6, line 7).

### Response to Arguments

- 16. Applicant's arguments with respect to Johnson have been fully considered and are persuasive. The rejection of claim 38 under 35 U.S.C. 102(b) as being clearly anticipated by Johnson (US 5018440) has been withdrawn.
- 17. Applicant's arguments with respect to Nelles have been fully considered but they are not persuasive, for the reasons set forth in the rejections made above and discussed further below.
- 18. In particular applicant argues that Nelles does not teach the flow of liquid through the tank based on the amount of time that the cheese has been in each section. However, Nelles not only teaches introducing cooling brine from the bottom of the tank, where the cheese blocks have remained in the tank the longest, but Nelles emphasizes the brine is injected "with sufficient force to over come the tendency of the cooler fluid to remain at the bottom. This forces the cooler brine 99 to flow upward through the cages

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15, surrounding the blocks of cheese 100 held in the cages 15...". Therefore, Nelles not only teaches introducing the brine at the location of the coolest cheese blocks, but Nelles emphasizes the importance of forcing the cooling liquid from the bottom of the tank to the top of the tank, which would inherently result in a sequential movement from the shelves holding the coolest cheese blocks at the bottom of a cage to the shelves holding the warmest cheese blocks at the top of a cage. Nelles clearly meets the limitation of "continuing to transfer liquid sequentially in to other sections of the tank by successively transferring the liquid from a section by that contains cheese blocks which have been in the tank for a lesser amount of time than a section which receives the liquid" as recited in the claims.

19. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a plurality of control valves and pumps for proper direction of liquid flow) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Conclusion

20. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire

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THREE MONTHS from the mailing date of this action. In the event a first reply is filed

within TWO MONTHS of the mailing date of this final action and the advisory action is

not mailed until after the end of the THREE-MONTH shortened statutory period, then

the shortened statutory period will expire on the date the advisory action is mailed, and

any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date

of the advisory action. In no event, however, will the statutory period for reply expire

later than SIX MONTHS from the date of this final action.

21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert Madsen whose telephone number is (571) 272-

1402. The examiner can normally be reached on 7:00AM-3:30PM M-F.

22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

23. Information regarding the status of an application may be obtained from the

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Robert Madsen

Examiner

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